

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

**Claim 1. (original)** A method for decomposing a halogenated hydrocarbon gas comprising the steps of:

supporting a catalyst for decomposing the halogenated hydrocarbon gas on a carrier which is electrically conductive and resistant to a halogen-containing gas; and

passing the gas containing the halogenated hydrocarbon through the carrier to decompose the halogenated hydrocarbon gas, while heating the carrier by an electromagnetic induction heating.

**Claim 2. (original)** The method of claim 1, wherein the carrier comprises at least one material selected from the group consisting of SiC and stainless steel.

**Claim 3. (original)** The method of claim 1, wherein the catalyst comprises at least one element selected from the group consisting of Pt, Pd, Au, Rh, and Ni.

**Claim 4. (original)** The method of claim 1, wherein the catalyst comprises at least one element selected from the group consisting of W, Cr, Fe, Mo, and V.

**Claim 5. (previously presented)** The method of claim 1, wherein the catalyst comprises (i) titania; (ii) at least one element selected from the group consisting of Pt, Pd, Au, Rh, and Ni; and (iii) at least one element selected from the group consisting of W, Cr, Fe, Mo, and V.

**Claim 6. (previously presented)** The method of claim 1, wherein the catalyst comprises (i) titania and (ii) at least one element selected from the group consisting of Pt, Pd, Au, Rh, and Ni.

**Claim 7. (previously presented)** The method of claim 1, wherein the catalyst comprises (i) titania and (ii) at least one element selected from the group consisting of W, Cr, Fe, Mo, and V.

Claim 8. (canceled)

Claim 9. (canceled)

Claim 10. (canceled)

Claim 11. (canceled)

<sup>8</sup>  
Claim ~~12~~. (previously presented) The method of claim 1,  
wherein the carrier is made of a carbon ceramic.

<sup>9</sup>  
Claim ~~13~~. (previously presented) The method of claim ~~12~~,  
wherein the carbon ceramic is SiC.

<sup>10</sup>  
Claim ~~14~~. (previously presented) The method of claim ~~13~~,  
wherein the carrier is in the shape of a honeycomb.

<sup>11</sup>  
Claim ~~15~~. (previously presented) The method of claim 1,  
wherein the halogenated hydrocarbon gas is decomposed at a  
temperature of 200 to 800°C.

<sup>12</sup>  
Claim ~~16~~. (previously presented) The method of claim ~~15~~,  
wherein the temperature is 300 to 500°C.

<sup>13</sup>  
Claim ~~17~~. (previously presented) The method of claim <sup>12</sup>~~16~~,  
wherein the catalyst is Pt-WO<sub>3</sub>-TiO<sub>2</sub>.

<sup>14</sup>  
Claim ~~18~~. (previously presented) The method of claim 1,  
wherein dioxins are not generated; and the heating is uniform.

<sup>15</sup>  
Claim ~~19~~. (currently amended) The A method of claim 8 for  
decomposing a halogenated hydrocarbon gas comprising the step of:  
passing a halogenated hydrocarbon containing gas through a  
heating body which is electrically conductive and resistant to a  
halogen-containing gas to decompose the halogenated hydrocarbon  
gas, while heating the heating body by an electromagnetic  
induction heating, wherein the heating body is made of SiC.

Claim 20. (canceled)